(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 19.01.2000 Bulletin 2000/03

(51) Int Cl.7: H01J 37/32

(43) Date of publication A2: 18.11.1998 Bulletin 1998/47

(21) Application number: 98303196.4

(22) Date of filing: 24.04.1998

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 13.05.1997 GB 9709659

(71) Applicant: Surface Technology Systems Limited Gwent, Wales NP1 9UJ (GB)

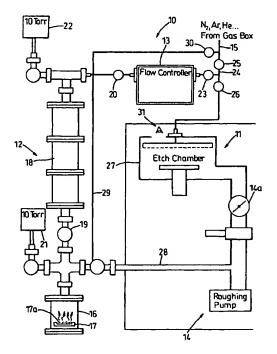
(72) Inventors:

- McQuarrie, Andrew Duncan
 San Jose, California 95132 (US)
- Boman, Lee Campbell Belmont, California 94002 (US)
- (74) Representative:
 Dunlop, Brian Kenneth Charles et al
 c/o Wynne-Jones, Lainé & James
 22 Rodney Road
 Cheltenham Gloucestershire GL50 1JJ (GB)

(54) Method and apparatus for etching a workpiece

(57) An XeF₂ source 12 comprises a XeF₂ source chamber 16, which includes a tray or ampoule 17 for XeF₂ crystals 17a, a reservoir 18 via valve 19, a flow controller 13 fed by the reservoir 18 and a valve 20 be-

tween the reservoir 18 and the controller 13. Pressure sources 21 and 22 are provided respectively to maintain the reservoir 18 and the source chamber 16 at the sub-limination pressure of XeF_2 . The arrangement allows for a steady supply of XeF_2 to an etching chamber.





EUROPEAN SEARCH REPORT

Application Number EP 98 30 3196

Category	Citation of document with inc of relevant passa	ication, where appropriate, ges	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.6)
E	PATENT ABSTRACTS OF vol. 1998, no. 13, 30 November 1998 (19 & JP 10 209088 A (MI CORP), 7 August 1998 * abstract *	98-11-30) TSUBISHI ELECTRIC	1-3,6,8	H01J37/32
A	PATENT ABSTRACTS OF vol. 010, no. 325 (E 6 November 1986 (198 & JP 61 134019 A (NE 21 June 1986 (1986-0 * abstract *	-451), 6-11-06) C CORP),	1,6	
	·		·	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
	The present search report has be	en drawn up for all claims Date of completion of the sean	ch (Examiner
	THE HAGUE	25 November 19		aub, G
X : part Y : part doct A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone cularly relevant if combined with another ment of the same category nological background -written discusure mediate document	T: theory or pi E: earlier pate after the fili D: document L: document	rinciple underlying the int document, but publi ing date cited in the application cited for other reasons	invention shed on, or

EP 0 878 824 A3

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 98 30 3196

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

25-11-1999

	Patent document cited in search repo	rt	Publication date	Patent family member(s)	Publication date
J	P 10209088	Α	07-08-1998	NONE	
ن	P 61134019	A	21-06-1986	NONE	
_					
ļ					
l.					
,					
			·		

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

THIS PAGE BLANK (USPTO)